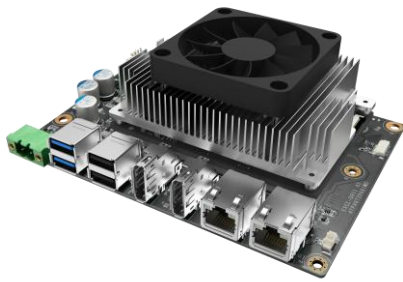


APPLIED INTELLIGENCE

QUALCOMM IQ9 SERIES



Preliminary



EXEC-Q911

HIGHLIGHT FEATURES

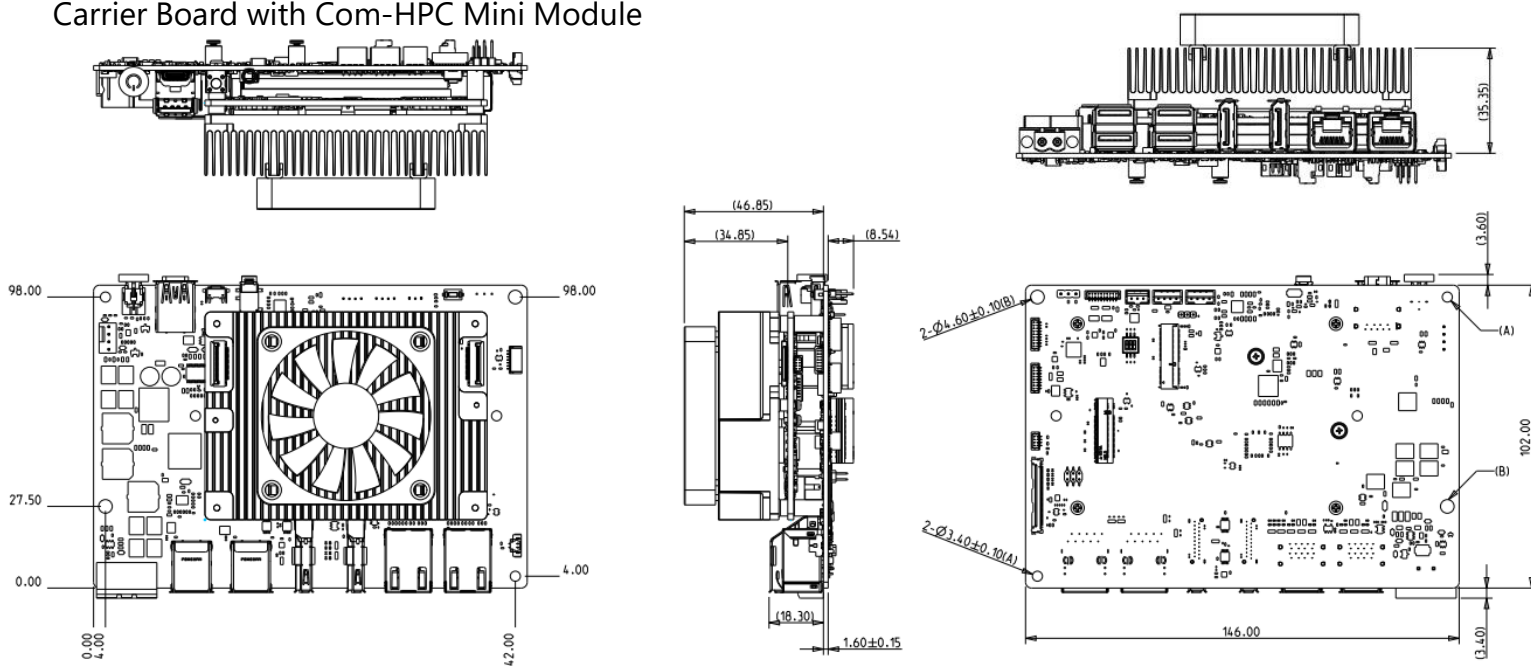
- Powered by Qualcomm Dragonwing QCS9075
- Provides up to 100 TOPS of AI processing performance at low power
- Accelerates AGV, AMR, and LLM applications at the edge with unparalleled performance
- 128GB UFS 3.1 storage, up to 36GB onboard memory
- Dual 2.5G Ethernet, dual 4-lane MIPI CSI-2
- Longevity: Chipset supported through 2038

SPECIFICATIONS

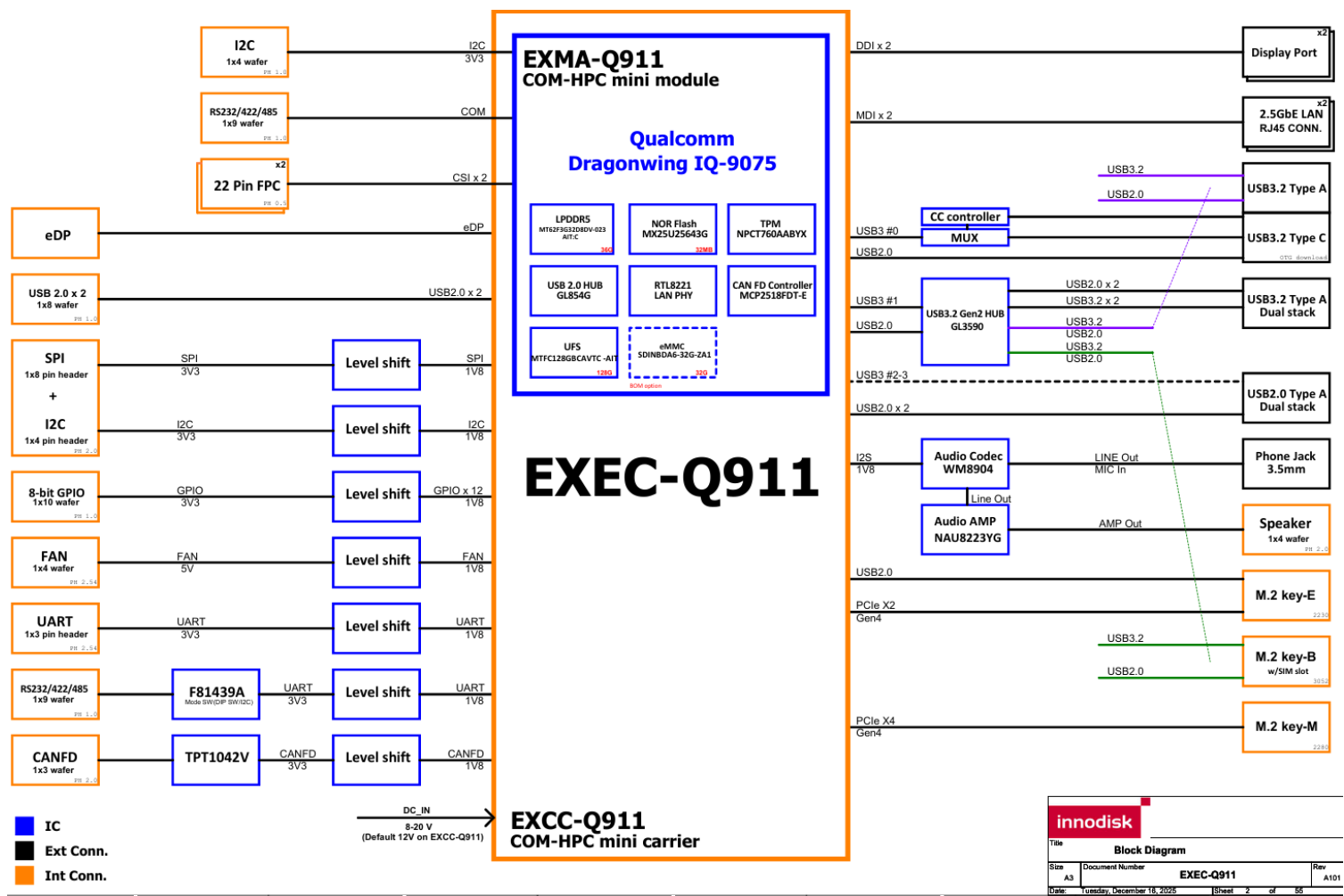
Model Name	EXEC-Q911	
Module Form Factor	COM-HPC Mini	
CPU	Qualcomm Dragonwing™ IQ-9075 SoC (Octa-core Kryo Gen 6 : 8x Kryo Gold Prime @2.36GHz)	
Graphics	Adreno 663 GPU	
Memory	36GB LPDDR5X	
Storage	128GB UFS 3.1	
AI Engine	100 TOPS (Dense) / 200 TOPS (Sparse) via 2 x NPU Hexagon Tensor Processor	
Expansion Slots	M.2 2280 M Key	1 x PCIe Gen 4 x4
	M.2 3052 B Key	USB 3.2 Gen 2, USB2.0*
	M.2 2230 E Key	1 x PCIe Gen 4 x2 , USB 2.0
MIPI	MIPI CSI-2	2 x 4-lane MIPI CSI-2 (22pin, P : 0.5, on module)
Ethernet	LAN	2 x 2.5GbE RJ45
Display	DP1.2	2
	eDP	1
Audio	MIC In / LINE Out	Phone Jack 3.5mm
	AMP Out	Wafer (1 x 4)
External I/O	USB 3.2 Gen 2 x1 (10Gbps)	3
	USB 3.2 Gen 2 x1 (10Gbps) Type-C	1 (OTG support)*
	USB 2.0	2
	Buttons	1 x Power, 1 x Reset
	Power Connector	Pluggable Terminal Block, P: 5.08mm, female, 2pin
	Debug Port (UART)	1 (1 x 3, P : 2.54, 3.3V)
Internal I/O	EDL Jumper	1 (1 x 3, P : 2.0)
	CPU Fan Connector	1 (1 x 4, P : 2.54, for PWM Contorl, 12V)
	eDP	1 (40pin, P : 0.5)
	eDP Power Jumper	1 (2 x 3, P : 2.0)
	GMSL Power	1 (1 x 4, P: 2.0, 12V 3A)
	GPIO	8 (1 x 10, P : 1.0, 0.5A VCC, GND)
	SPI	1 (1 x General SPI on 12-pin header, P:2.0, 3.3V)*
	I2C	2 (1 x I2C on module, P:1.0, 3.3V ; 1 x I2C on 12-pin header, P:2.0)*
	CAN FD	1 (1 x 3, P : 2.0)
	COM	2 (1 x 9 P : 1.0, on module, 1 x 9 P : 1.0, on carrier board, RS232 / 422 / 485)*
	USB 2.0	1(1 x 8, P : 1.0)*
	Boot Mode Select	1 (Toggle Switch, 4 Poles)*
	Sim Slot	Nano SIM (4FF)*
Power	Power Input Voltage	DC 9-36V (12V@2.6A)
	RTC Battery	CR2302 Coin Cell
Security	TPM2.0	
OS Support	Yocto Linux (Kernel 6.6); Ubuntu 24.04 (Kernel 6.8)	

P/N	Description
EXEC-Q911-00A1-W1	COM-HPC Mini Starter Kit, Qualcomm IQ-9075, 128G UFS, 36G LPDDR5, DC 9-36V, -40 ~85°C

Carrier Board with Com-HPC Mini Module



BLOCK DIAGRAM



PACKING LIST

Part Number	Description	Q'ty
EXEC-Q911-00A1-W1	COM-HPC Mini Starter Kit, Qualcomm IQ-9075, 128G UFS, 36G LPDDR5, DC 9-36V, -40 ~85°C	1

OPTIONAL ACCESSORIE

P/N	Description
9Z9000000220	Adapter, 100-240V, 12V, 60W, 2P phoenix header
7W8000000090	Power Cord, Standards(US) 1.8m

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